In 1942 the average annual income of 40 families at the Dresslerville Colony was $664 (Program of the Carson Agency 1944, 184). Incomes have since increased substantially above the 1942 figure. For example, in the summer of 1961 there were three electricians and a painter that commuted from Dresslerville to Reno every work day.

Washo reside today primarily in small shacks in Dresslerville, Carson City, and Reno, Nevada and in Woodfords and Coleville, California. A large number of Washo have married out of the tribe and live in the communities mentioned above or in other parts of Nevada and California.

The general figures on the causes of deaths among Nevada Indians is probably indicative of certain elements in current Washo life (Haglund, et al. 1961, 43-43c). Non-Indians in Nevada have a higher frequency of deaths due to heart diseases and cancer while the Indians have higher death rates in the categories of violence, vehicle accidents, pneumonia, enteritis, tuberculosis, homicide, and suicide. "In the general accident category... Nevada Indian deaths are almost twice the proportion of that of non-Indians in this state. Homicide as a cause of death is five times greater among Nevada Indians than among Indians in other parts of the continental United States."

The following chronology is presented to give an overview of the important events in the history of Washo territory. Several of the events listed have not been settled by historians and may be only approximately correct as stated here. There is little of an ethnohistorical character to this outline, but it does provide a framework for relating changes in Washo economics to the facts of White contact.

1826 - (possibly 1825) Jedediah S. Smith brought a party of some forty trappers down the Humboldt, to the Walker River, and over Walker's Pass into California. In the same year he recrossed the Sierras passing Mono Lake on the way east (Thompson and West 1881).

1833 - Capt. B. L. E. Bonneville sent a trapping (and spying?) party under Joseph R. Walker into Spanish California by way of Pyramid Lake, up the Truckee River, and over the Sierras. Zenas Leonard wrote a diary of this trip (Nevada 1940, 289).

1841 - Capt. J. B. Bartleson took an emigrant party, with John Bidwell and Col. Joseph B. Chiles along, to the Carson and Walker rivers and over the Sierras into California by way of Sonora Pass (Nevada 1940, 289).

1844 - Col. John C. Fremont and his survey party, with Kit Carson along, passed Pyramid Lake, proceeded south through Carson Valley and on

Pinenut picking grounds and eagle aeries were owned for exclusive use purposes by kinship groups. It appears that these traditional forms of private ownership developed as an institutionalization of the personalization of property and rights obtained through use. 423 621 596

Inheritance is a transfer of ownership from a deceased person to a living person or persons. It is based on a pre-existing relationship between the deceased and his successors, is personal, and usually traditional (Hoebel 1958, 458). Generally in primitive societies inheritance of chattel goods follows the sexual division because the distinction between men and women's goods is so complete. Also land tenure is generally communal with some kinship and residence group modification. 428

Among the Washo the complete destruction of a person's goods at his death precludes inheritance of chattel property. Real estate is essentially communal and for the tribe, inalienable. Hank Pete said that when "Captain Jim" (Gumalanga) received two sacks of flour for the land around the present town of Genoa, Nevada from John Reese in 1851 he had no concept of alienating the land. John Reese thought he had bought land while Captain Jim thought he had merely received a gift in exchange for providing the strangers temporary use of lands. 423 [768] [422] [425] [648]

Though modification of the communal nature of real estate came in the case of pinenut groves and eagle aeries, this modification is not subject to inheritance in the full sense. It is more a heritage by virtue of birth, rather than inheritance by virtue of death. There was, for example, no transfer of ownership of eagle nests when a person died; individuals, however, referred to their relationship with the deceased in order to reaffirm their rights to the baby eagles. 428 423 178

Division and Specialization of Labor

Division of labor within the household called for the women to do the general gathering of seeds, nuts, roots, berries, and insects. The women cooked, made baskets, and tended the children. The men hunted, carried water, gathered firewood, prepared the skins, and made most of the clothing, fiber cords, rabbit skin blankets, rabbit nets, and hunting and fishing gear. Men and women both gathered pinenuts, fished, and worked in the construction of houses. This division of duties was not rigid so that each sex knew and participated in activities of the other sex. 462

Division of labor by age was related to ability and the development of skills. Soon after a child began to walk he was given small tasks to do and ability and responsibility was expected to increase gradually with age. By puberty the individual was a full contributor to the household. With old age the more sedentary crafts such as basketry and net making were emphasized. [86.8] [887] [463]

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There were no full time craft specialists in Washo society. Every household produced the major amount of its own food, clothing and shelter. There were some individuals who were better at making bows and arrows and other crafts who specialized to a degree.

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Particularly successful hunters became leaders of deer hunting parties. Leadership was somewhat specialized for rabbit drives, antelope drives, mud hen and duck drives, dances, pinenut gathering, and cooperative endeavors generally.

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The shaman came the closest to being a full time specialist since he spent much time at his trade. There was a great proliferation of specialization among shamans.

This specialization involved the source of particular supernatural abilities (wɬgaleyu), what songs or paraphernalia were used, and what curing or other services could be rendered. Some individuals were particularly expert at "charming" antelope in the antelope drives. Others had the ability from the rattlesnake spirit to cure snake bites. In addition, there were herbalists and midwives who practiced without shamanistic ritual.

[224]
[424]
[752]

The Washo lacked well tailored clothing necessary for extensive winter travel. Their techniques of production were geared to small scale household use so that tradeable surpluses were rarely acquired. The Washo were organized into small scale groupings with few specilizations of labor. They lacked adequate storage techniques for fish and game so that surpluses in these foods were not preserved. Also inter-tribal frictions and hatreds often prevented safe travel outside of Washo territory. There are indications that once the Whites established an effective government over Washo and surrounding territory, trade and marriage between Indians from different tribes increased significantly. The Carson Indian Boarding School, established in 1890, became an important factor in developing intertribal cooperation by providing a situation in which individuals from several tribes could meet and become friends.

Certain kinds of goods were particularly heavy in the trade traffic of aboriginal Great Basin and California. Davis (1961, 12-4) gives an idea of what these items were in California. In order of importance they were marine shells and beads, salt, basketry, hides and pelts, bows, acorns, fish, pinenuts, obsidian, pigments, miscellaneous vegetal foods, rabbit skin blankets, arrows, and a number of less important items.

In one table Davis (ibid., pp. 12-4) lists 83 traded items. The Washo used 53 of these items. Except for five items made of marine shells and "Caucasian goods", all 53 of the items used by the Washo were gathered or made by the Washo.

Pacific coast beads and pendants were used for personal adornment, but they were unimportant in face of the competition with local shell, plant, bone, and stone materials.

It is probable that all of the 53 items in the list by Davis were occasionally received by Washo from non-Washo through trade. Even items that were abundant within Washo territory such as pinenuts, fish, basketry, and rabbit skin blankets may have been received by trade in special instances. Lists of things traded are of little value unless they reflect volume.

The goods most exported to the Miwok and Maidu were salt, pinenuts, obsidian, skins, and several Washo manufactures such as rabbit skin blankets and basketry. In return the Washo received principally acorns, soaproot for combs and brushes, a variety of medicinal plants, and occasionally manufactures such as baskets and yew bows. Few acorns were received by the Washo through trade unless the local crop was poor. All the other plants traded were received primarily through gathering and not trade.

Both Davis (1961) and Sample (1950), in their summaries of California trade, repeated a view held by Barrett and Gifford (1933, 193, 221). It is

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Rabbit skins were also cut into strips and woven into warm robes. Conical houses were made of wooden poles and brush thatch for winter weather while a half-dome windbreak served for warm weather. 342

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The household of a family and relatives in a single winter house was the basic socioeconomic unit of society. Each household worked and shared together in solving the problems of survival and fulfilling social and ritual obligations. The household continued to fish, hunt, and collect its food in a fairly uniform way year after year in the same sector of Washo territory. If the fishing was poor in one place, they moved to another stream. If the pinenuts failed, they went to the west and gathered acorns. And wherever they went, they hunted or gathered what was available: some tree grubs here, a lettuce-like vegetable there, and a squirrel or rabbit or bird at the next place. The procurement and preparation of food was clearly the most time consuming activity in Washo life. 22

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Men and women often worked together at the same tasks, but there was some division of labor by sex. Men hunted and except for basketry, were the craftsmen who made the clothing, houses, and hunting and fishing gear. Women gathered plant and insect foods, prepared and cooked them, made the baskets, and tended the children. A few individuals specialized to a degree [463] in becoming shamans, midwives, herbalists, or particularly adept in a craft.

43
Sharing, as the economic basis of family life, was the very essence of Washo economy. Sharing found expression in the producing task groups that drew members from more than one household. It was through sharing that the vast majority of goods changed hands. Exchange, with a stronger demand for reciprocal equivalence than sharing, characterized the economic aspects of social rituals, as well as the more impersonal forms of distribution such as gambling, trade, and payments made for services rendered.

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Washo economy appears in a few ways to be distinctive in the Great Basin. [161]
The Washo ranged a particularly productive environment which allowed them the highest population density in the Basin. The Washo may have had less [439]
trade than the surrounding peoples because of several factors, language isolation being one. Pinenut groves were privately owned, a rare phenomenon [423]
in the Basin. Washo techniques for gathering and storing pinenuts, in strips and the construction of great caches, is also perhaps unique in the Basin and [251]
inadvertantly presented them with another unique phenomenon, overproduction.

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There are still broad gaps in our knowledge of Washo aboriginal life. The data are fairly complete on language and mythology, but the rest of Washo culture has been only sketched out in its major outlines. Most of this is [174]
unrecoverable and only by careful interviewing, archeology, and scrutiny of historical documents can we hope to reconstruct a way of life that began to disappear over 100 years ago.

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alcoholic and nonalcoholic. The alcoholics were found to have a significantly higher percentage of elevated blood pressures than the nonalcoholics.

6. Religion. Members of the sample were questioned concerning their religious affiliation and were placed into three categories: none, Christian (mostly Baptist), and Peyotists. Though there was little difference in hypertension between the Christians and those with no preference, both groups had significantly more elevated pressures than the Peyotists. Three variables did not reach the 10% level of significance.

[177]

7. Residence. Of the three Washo communities studied it was felt that Dresslerville and Carson City represented the greatest degree of acculturation to the dominant white culture, and Woodfords the least. Assuming that stress accompanies acculturation (an assumption not always warranted), we predicted that Dresslerville and Carson City would have a higher prevalence of hypertension than would Woodfords. This was in fact the case but the differences among the three communities were not statistically significant. The prevalence of elevated diastolic blood pressure was 38% in Dresslerville and 39% in Carson City, whereas it was 28% in Woodfords.

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8. Occupation. Hypertension was related neither to type of occupation (ranch workers or construction workers) nor to the difference between seasonal and full time employment.

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9. Involvement in Tribal Council. Past and present office holders of the Washo Tribal Council showed a tendency to have a lower percentage of elevated pressures than other Washo, but this difference did not reach a level of statistical significance.

Because it was felt that some of the associations between elevated blood pressure and selected variables might be due to relationships among variables, a correlation matrix was computed for the six significant independent variables in addition to the dependent variable, elevated blood pressure. The six variables were again found to be significantly related to blood pressure at or beyond the 10% level. Of fourteen intercorrelations, three other sets of statistically significant relationships were found: sex with age, Peyotism with alcoholism and age with school type. Since the males were found to be older than the females this difference may account for the earlier finding of a male preponderance of hypertension. The correlation between Peyotism and alcoholism is negative, and is expected, since membership in the Peyote church is supposed to preclude drinking. Finally, the correlation of age with school type (younger Washo attended the white schools, and older Washo, no school) is also expected since "integrated" schools are a relatively recent innovation in Nevada. Nonetheless, since it had already been